

WHAT IS CLAIMED IS:

1. A heat dissipation module, comprising:

a fan having a shaft with a first end and an opposite second end, the first end of the shaft penetrating a hub of the fan and connecting to a heating element; and

5 a heat sink connected to the second end of the shaft; wherein the shaft is made form materials with high thermal conductivity.

2. The heat dissipation module according to claim 1, wherein the shaft is a heat pipe.

3. The heat dissipation module according to claim 1, wherein the materials with
10 high thermal conductivity is selected from the group of aluminum, copper, aluminum alloy, copper alloy and their compounds.

4. The heat dissipation module according to claim 1, further comprising a base mounted on the heating element, and the shaft is fixed on the base to connect to the heating element.

15 5. The heat dissipation module according to claim 4, wherein the base is formed with a plurality of teeth circularly arranged on its surface, and a gap is formed between two adjacent teeth.

6. The heat dissipation module according to claim 5, wherein the teeth are made from materials with high thermal conductivity.

7. The heat dissipation module according to claim 4, wherein the base is formed with a plurality of bumps on its surface.

8. The heat dissipation module according to claim 7, wherein the bumps are made from materials with high thermal conductivity.

5 9. The heat dissipation module according to claim 4, wherein the base is formed with an opening, and the shaft is inserted into the opening to fix on the base.

10. A heat dissipation module, comprising:

 a shaft made from materials with high thermal conductivity having a first end connecting to a heating element and an opposite second end;

10 a stator assembly fixed on the shaft;

 a rotor pivotally joined to the shaft and kept a fixed distance from the stator assembly through magnetic interaction; and

 a heat sink connected to the second end.

15 11. The heat dissipation module according to claim 10, wherein the shaft is a heat pipe.

 12. The heat dissipation module according to claim 10, wherein the materials with high thermal conductivity is selected from the group of aluminum, copper, aluminum alloy, copper alloy and their compounds.

 13. The heat dissipation module according to claim 10, wherein the rotor is made

from materials with high thermal conductivity.

14. The heat dissipation module according to claim 10, wherein the first end of the shaft is formed with an enlarged portion to increase an area in contact with the heating element.

5 15. The heat dissipation module according to claim 10, further comprising a base mounted on the heating element.

16. The heat dissipation module according to claim 15, wherein the base is interposed between the shaft and the heating element, and the shaft is fixed on the base to connect to the heating element.

10 17. The heat dissipation module according to claim 15, wherein the shaft penetrates the base and touches the heating element.

18. The heat dissipation module according to claim 15, wherein the base is formed with a plurality of teeth circularly arranged on its surface, and a gap is formed between two adjacent teeth.

15 19. The heat dissipation module according to claim 18, wherein the shape of the teeth conforms to a flow channel design.

20. The heat dissipation module according to claim 15, wherein the base is formed with a plurality of bumps on its surface.